Listing of the Claims

This listing of claims will replace all prior versions, and listings, of claims in the

application:

(Original) A medical needle shield apparatus comprising:

a needle hub having a needle cannula extending therefrom to a distal end;

and at least one shield being extensible from a retracted position to an extended

position to enclose a distal end of the needle.

the shield including a binding member disposed within the shield and

defining binding surfaces that form an aperture configured for slidable receipt of the

needle between the retracted position and the extended position,

the binding member including at least one drag inducing member such that

the at least one drag inducing member engages the needle during slidable receipt

of the needle to create a drag force with the needle, the drag force and shield

facilitating rotation of the binding member relative to a longitudinal axis of the

needle such that the binding surfaces engage the needle to prevent slidable

movement of the needle in the extended position of the shield.

the binding member further including a needle communicating surface

extending therefrom such that the needle communicating surface is engageable

with the needle to prevent rotation of the binding member,

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a retainer for releasable engagement with the needle hub, and

the binding member further including a binding member reset surface

selectably alignable with a reset surface.

2. (Original) A medical needle shield apparatus as recited in claim 1,

wherein the at least one drag inducing member defines a cavity that is substantially

aligned with the aperture, the cavity being configured for slidable receipt of the

needle to create the drag force with the needle.

3. (Original) A medical needle shield apparatus as recited in claim 1.

wherein the binding member includes a substantially planar aperture plate that

includes the binding surfaces that form the aperture.

(Original) A medical needle shield apparatus as recited in claim 3,

wherein the at least one drag inducing member includes a pair of arms extending

from the aperture plate.

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5. (Original) A medical needle shield apparatus as recited in claim 3.

wherein the arm includes a deflectable member.

6. (Original) A medical needle shield apparatus as recited in claim 1,

wherein the binding member is rotatable, relative to a longitudinal axis of the inner

needle, between a non-binding orientation whereby the inner needle is slidable

relative to the binding member and a binding orientation whereby the binding surfaces

engage the inner needle to prevent slidable movement of the inner needle in the

extended position of the at least one shield.

7. (Original) A medical needle shield apparatus as recited in claim 1,

wherein the shield includes a housing that defines at least one blocking member

extending from a surface thereof, the at least one blocking member being engageable

with the binding member for urging the binding member to a binding orientation.

8. (Original) A medical needle shield apparatus as recited in claim 3.

wherein the shield includes a housing that defines at least one blocking member

extending from a surface thereof, the aperture plate being axially movable for

engagement with the at least one blocking member that causes rotation of the binding

member to a binding orientation.

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9. (Original) A medical needle shield apparatus as recited in claim 1,

wherein the at least one shield is supported for relative rotational movement by at

least one bearing.

10. (Original) A medical needle shield apparatus as recited in claim 1,

wherein the needle is attached to a handle for manipulation thereof.

11. (Original) A medical needle shield apparatus as recited in claim 1.

wherein the needle hub is releasably mountable with a housing of the at least one

shield.

12. (Original) A medical needle shield apparatus as recited in claim 1.

wherein the needle hub defines a hub slot that is configured to receive the retainer of

the binding member.

13. (Original) A medical needle shield apparatus as recited in claim 1.

wherein the binding member includes at least one outwardly arcuate arm that extends

to the needle communicating surface.

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said retainer.

 (Original) A medical needle shield apparatus as recited in claim 1, further comprising a plurality of shields.

(Original) A medical needle shield apparatus as recited in claim 1,
 wherein said binding member reset surface comprises the distal facing surface of

16. (Original) A medical needle shield apparatus as recited in claim 1, wherein said reset surface is configured to deflect said binding member reset surface to facilitate rotation of the binding member relative to said longitudinal axis such that said binding surface disengages the inner needle.

- (Original) A medical needle shield according to claim 1, wherein said medical needle is adapted for bone biopsy.
- 18. (Original) A medical needle shield apparatus as recited in claim 1, wherein said reset surface is separate from said hub and urged by a spring toward said binding member reset surface.

19. (Original) A medical needle shield apparatus of claim 18, further

comprising a luer male taper configured with said hub.

20. (Original) A medical needle shield according to claim 1, further

comprising a protective needle sheath member.

(Original) A medical needle shield apparatus as recited in claim 1,

wherein the shield includes a probe guide at a distal end thereof configured for

receipt of an obturator, the obturator being configured for slidable movement with

the needle cannula.

22. (Original) A medical needle shield according to claim 1, further

comprising a retention element.

23. (Original) A medical needle shield according to claim 1, further

comprising a guiding member for guiding through-the-needle devices.

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- (Original) A medical needle shield according to claim 1, further comprising a funnel for guiding an obturator.
- (Original) A medical needle shield according to claim 1, further comprising detent disposed between the needle hub and the shield.
- (Original) A medical needle shield according to claim 1, wherein said shield further comprises a flexible funnel.
- (Original) A medical needle shield according to claim 1, wherein said shield comprises a depth stop.

28. (Withdrawn) A medical needle assembly comprising:

a first medical needle apparatus comprising:

a first medical needle having a proximal end opposite from a distal end.

a first shield on the first medical needle,

wherein the first shield is moveable from a retracted position to an extended position to sheath the distal end of the first medical needle, and

wherein the first shield can be reset to expose the distal end of the first medical needle after sheathing the distal end; and

a second device having a reset surface configured to engage the first medical needle apparatus to allow reuse of the first shield in a retracted position.

29. (Withdrawn) The assembly of claim 28, wherein the first medical needle further comprises a first hub from which the proximal end of the first medical needle extends.

30. (Withdrawn) The assembly of claim 29, wherein the second device is a

second medical needle apparatus comprising a second hub from which a proximal end

of a second medical needle extends, wherein the second medical needle terminates at

a distal end.

31. (Withdrawn) The assembly of claim 30, wherein the first hub has a first

handle extending therefrom, wherein the second hub has a second handle extending

therefrom, and wherein the first handle and the second handle fit together in a mated

configuration to permit the first handle and the second handle to be simultaneously

grasped.

32 (Withdrawn) The assembly of claim 31, wherein the mated configuration

permits the first handle and second handle to be temporarily secured together and to

then be released from each other.

33 (Withdrawn) The assembly of claim 30, wherein the first medical needle

of the first medical needle apparatus slides within the second medical needle of the

second medical needle apparatus.

34. (Withdrawn) The assembly of claim 33, wherein the first medical needle is

a stylet.

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35. (Withdrawn) The assembly of claim 33, wherein the first shield has a

retention element to enable the first shield to be retained as the first medical needle

moves within the second medical needle until the first shield is bound to the first medical

needle.

36. (Withdrawn) The assembly of claim 33, wherein the first shield has a

retention element to enable the first shield and the first medical needle to move relative

to each other until the first shield reaches the distal end of the first medical needle.

37. (Withdrawn) The assembly of claim 33, wherein the second medical

needle apparatus further comprises a second shield on the second medical needle, and

wherein the first shield has a retention element to enable the first shield to be retained

by the hub until the first medical needle is removed from the second medical needle to

enable the first shield to be bound to the first medical needle.

38. (Withdrawn) The assembly of claim 29, wherein the hub of the second

medical needle apparatus further comprises a hub slot, wherein the first medical needle

apparatus further comprises a first binding member in the first shield, wherein the first

binding member comprises a hub retainer configured to engage the hub slot to retain

the hub to the first shield.

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39. (Withdrawn) The assembly of claim 28, wherein the reset surface of the

second medical needle apparatus cooperates with a component in the first shield of the

first medical needle apparatus to unlock the component so that the first shield can be

moved from an extended position with the distal end of the first medical needle

sheathed to a retracted position on the first medical needle to expose the distal end of

the first medical needle.

40. (Withdrawn) The assembly of claim 39, wherein the component is a reset

element of a binding member in the second shield and wherein the binding member is

positioned on the second needle.

41. (Withdrawn) The assembly of claim 29, further comprising a depth stop

on the second medical needle.

42. (Withdrawn) The assembly of claim 29, wherein the second medical

needle apparatus further comprises a second shield on the second medical needle.

43. (Withdrawn) The assembly of claim 42, wherein the second shield is

configured to simultaneously sheath the distal end of the first medical needle and the

distal end of the second medical needle when the first medical needle is positioned

within the second medical needle and the assembly is ready for use.

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44. (Withdrawn) The assembly of claim 28, wherein the reset surface is a

reset geometry which unlocks a reset element of the first medical needle apparatus.

45. (Withdrawn) A medical needle assembly comprising:

a first medical needle apparatus comprising

a first medical needle having a proximal end opposite from a distal end,

a first shield on the first medical needle.

wherein the first shield is moveable from a retracted position to an

extended position to sheath the distal end of the first medical needle, and

wherein the first shield is configured to be reset to expose the distal

end of the first medical needle after sheathing the distal end:

a second device having a reset surface configured to engage the first medical

needle apparatus to allow reuse of the first shield in a retracted position:

wherein the second device has a component which cooperates with the

first medical needle of the first medical needle apparatus in a sliding

configuration.

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46. (Withdrawn) The assembly of claim 45, wherein the second device is a

second medical needle apparatus comprising a hub from which a proximal end of a

second medical needle extends, wherein the second medical needle terminates at a

distal end.

47. (Withdrawn) The assembly of claim 46, wherein the first medical needle

apparatus comprises a first binding member on the first medical needle in the first

shield, and wherein the first binding member has a reset element which interacts with

the reset surface of the hub.

48. (Withdrawn) The assembly of claim 46, wherein the reset surface is a

reset geometry which unlocks a reset element of the first medical needle apparatus.

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49. (Withdrawn) A medical needle assembly comprising:

a first medical needle apparatus comprising

a first medical needle having a proximal end opposite from a distal end,

a first hub from which the proximal end of the first medical needle extends,

a first shield on the first medical needle.

wherein the first shield is moveable from a retracted position to an

extended position to sheath the distal end of the first medical needle, and

wherein the first shield can be reset to expose the distal end of the

first medical needle after sheathing the distal end;

a second medical needle apparatus comprising

a second medical needle having a proximal end opposite from a distal

end.

a second hub from which the proximal end of the second medical needle

extends,

wherein the first medical needle of the first medical needle

apparatus slides within the second medical needle of the second medical

needle apparatus; and

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an obturator device comprising an obturator extending from a handle,

wherein the obturator is sized to slide within and extend through the

second medical needle to expel any contents in the second medical

needle.

50. (Withdrawn) The assembly of claim 49, wherein the first medical needle is

a stylet.

51. (Withdrawn) The assembly of claim 49, wherein the first medical needle

apparatus further comprises a first binding member on the first medical needle in the

first shield, and wherein the first binding member has a reset element which interacts

with the reset surface located on the second hub.

52. (Withdrawn) The assembly of claim 49, wherein the second medical

needle apparatus further comprises a second binding member on the second medical

needle in the second shield, and wherein the second binding member has a reset

element.

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53. (Withdrawn) The assembly of claim 49, wherein the first hub has a first

handle extending therefrom, wherein the second hub has a second handle extending

therefrom, and wherein the first handle and the second handle fit together in a mated

configuration to permit the first handle and the second handle to be simultaneously

grasped.

54. (Withdrawn) The assembly of claim 53, wherein the mated configuration

permits the first handle and second handle to be temporarily secured together and to

then be released from each other.

55. (Withdrawn) The assembly of claim 49, wherein the first shield has a

retention element to enable the first shield to be retained as the first medical needle

moves within the second medical needle until the first shield is bound to the first medical

needle.

56. (Withdrawn) The assembly of claim 49, wherein the first shield has a

retention element to enable the first shield and the first medical needle to move relative

to each other until the first shield reaches the distal end of the first medical needle.

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57. (Withdrawn) The assembly of claim 49, wherein the second medical

needle apparatus further comprises a second shield on the second medical needle, and

wherein the first shield has a retention element to enable the first shield to be retained

by the second hub until the first medical needle is removed from the second medical

needle to enable the first shield to be bound to the first medical needle.

58. (Withdrawn) The assembly of claim 49, wherein the hub of the second

medical needle apparatus further comprises a hub slot, wherein the first medical needle

apparatus further comprises a first binding member in the first shield, wherein the first

binding member comprises a hub retainer configured to engage the hub slot to retain

the second hub to the first shield.

59. (Withdrawn) The assembly of claim 49, wherein the second medical

needle apparatus has a reset surface which cooperates with a component in the first

shield of the first medical needle apparatus to unlock the component so that the first

shield can be moved from an extended position with the distal end of the first medical

needle sheathed to a retracted position on the first medical needle to expose the distal

end of the first medical needle.

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60. (Withdrawn) The assembly of claim 49, wherein the second shield is configured to simultaneously sheath the distal end of the first medical needle and the distal end of the second medical needle when the first medical needle is positioned within the second medical needle and the assembly is ready for use.